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(54) SURFACE ACOUSTIC WAVE ELEMENT

(57)Abstract:

PURPOSE: To obtain a surface acoustic wave element used at an ultrahigh frequency band by laminating a diamond-like carbon film layer, a piezoelectric layer and an electrode on a substrate and forming the diamond like layer by the gas phase synthesis method.

CONSTITUTION: The surface acoustic wave element is constituted by the substrate 1, the diamond-like carbon film layer, the piezoelectric layer 3 and the short-circuit use electrode 5. The diamond-like carbon is made of a gas such as a hydrocarbon as the raw material and synthesized on various substrates such as glass, Si or metal by the gas phase. The gas phase synthesis method of the diamond-like carbon is implemented by any of (1) the raw material gas is excited by heating an electron radiation material, (2) the gas is stimulated plasma and (3) the gas is decomposed and stimulated by light. A proper diamond-like carbon film layer is obtained by any synthesis method.



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